

**REMARKS**

Claims 1 and 4-8 remain in the application, claims 2 and 3 having been incorporated into claim 1 so that claim 1 now corresponds to claim 3 rewritten in independent form.

Reconsideration of the application and allowance of all claims are respectfully requested in view of the above amendments and the following remarks.

Claims 1 and 5-8 are rejected for anticipation by Takao et al. Claims 2-4 stand rejected as unpatentable over Takao et al in view of Sanduleanu. Claims 2 and 3 have been incorporated into claim 1, so that the anticipation rejection is now moot. The obviousness rejection is respectfully traversed.

Takao shows in Fig. 9 a phase shift circuit that uses a hybrid to provide the two shifted clocks. The examiner relies on Sanduleanu to teach the details of the phase splitter. Fig. 4 of Sanduleanu shows a filter 10 for producing orthogonal clocks, and combiners 6 and 7 for respectively taking the sum and difference of the clocks. However, there are no squaring circuits. The examiner refers to the elements circuits 14 and 15 of Sandaleanu as squarers, but these elements are clearly described in paragraph [0038] as transimpedance amplifiers. There is no mention in Sandaleanu of squaring the outputs of the combiners 6 and 7. The squarers SQ1 and SQ2 of the present invention operate to ensure amplitude uniformity in cases where the input and delayed clocks are not orthogonal. Sanduleanu never discusses this issue. Thus, even if one of skill in the art had combined the teachings of the references, the claimed invention would not have resulted.

Amendment Under 37 CFR 1.111  
USSN 10/720,195

Since the art does not teach or suggest the use of squaring circuits to condition the clock outputs, and since all claims now depend directly or indirectly on claim 1 which recites these elements, it is submitted that all claims are patentable, and a Notice of Allowance is respectfully requested.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

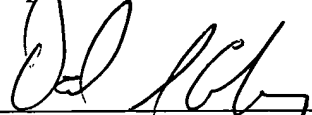
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